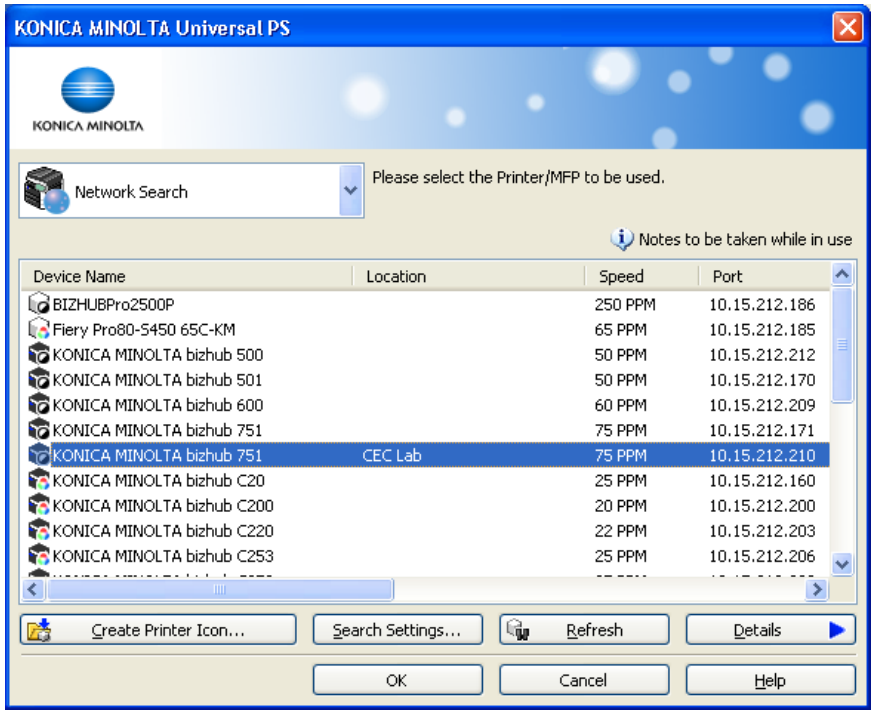
KONICA MINOLTA

COUNT ON KONICA MINOLTA

Konica Minolta Universal Printer Driver (UPD)

July 2009

PCL (Version 1.0.0.0) and PS (1.0.1.0)


KONICA MINOLTA Universal PS
KONICA MINOLTA
Network Search
Please select the Printer/MFP to be used.
Notes to be taken while in use
Device Name
Location
Speed
Port
BIZHUBPro2500P 250 PPM 10.15.212.186
Fiery Pro80-S450 65C-KM 65 PPM 10.15.212.185
KONICA MINOLTA bizhub 500 50 PPM 10.15.212.212
KONICA MINOLTA bizhub 501 50 PPM 10.15.212.170
KONICA MINOLTA bizhub 600 60 PPM 10.15.212.209
KONICA MINOLTA bizhub 751 75 PPM 10.15.212.171
KONICA MINOLTA bizhub 751 CEC Lab 75 PPM 10.15.212.210
KONICA MINOLTA bizhub C20 25 PPM 10.15.212.160
KONICA MINOLTA bizhub C200 20 PPM 10.15.212.200
KONICA MINOLTA bizhub C220 22 PPM 10.15.212.203
KONICA MINOLTA bizhub C253 25 PPM 10.15.212.206
Create Printer Icon...
Search Settings...
Refresh
Details
OK
Cancel
Help

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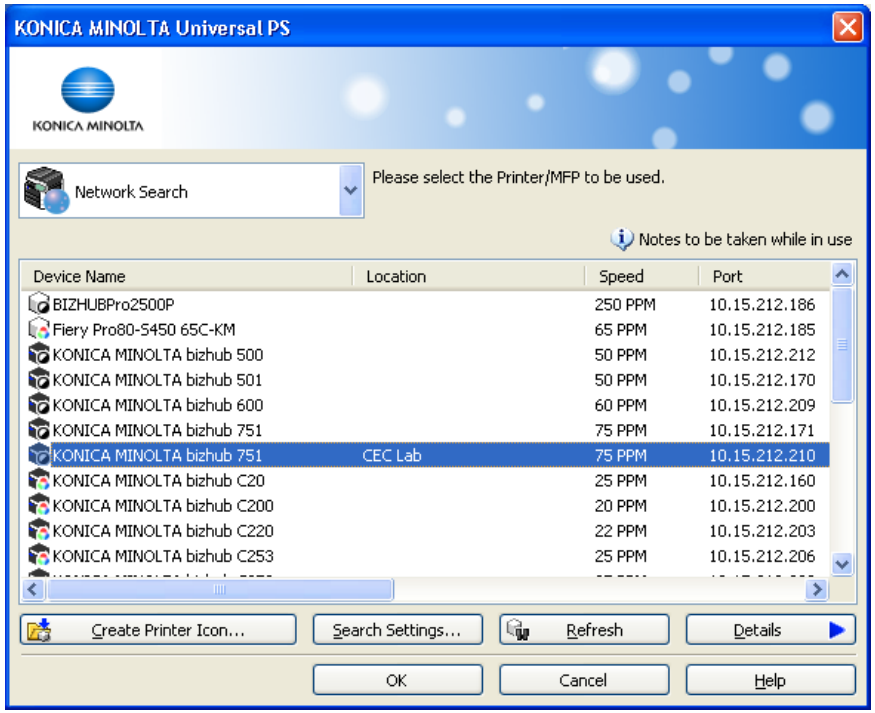
Agenda

- Universal Printer Driver Concept
- Key Features
- How it Works
- Performance
- Supported O/S
- Customer Applications
- Client & Server Installation Scenarios
- Advantages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Help

Concept

- A single Universal Printer Driver for multiple devices
- Available for Konica Minolta bizhub MFPs/printers and also third-party brands of PCL/PostScript devices (GDI devices are not supported)
- Common user interface for all devices
- Automatically detects devices and easy to configure

- Simplified management for IT administrator
- Powerful print driver for users utilizing multiple devices

Concept

Multiple Print Drivers in One

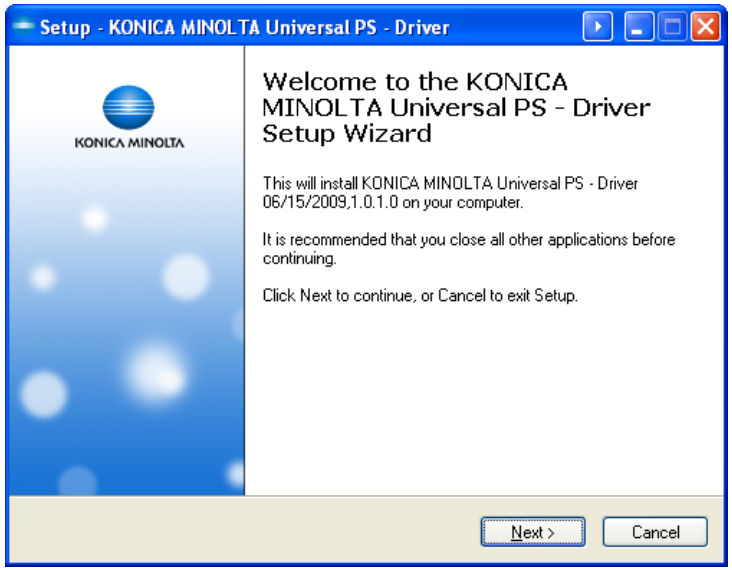
- The UPD contains multiple printer drivers:
  - **Individual Child Drivers** to connect to model specific Konica Minolta MFPs
  - **Common Child Drivers** to connect to other Konica Minolta devices and third-party brands.

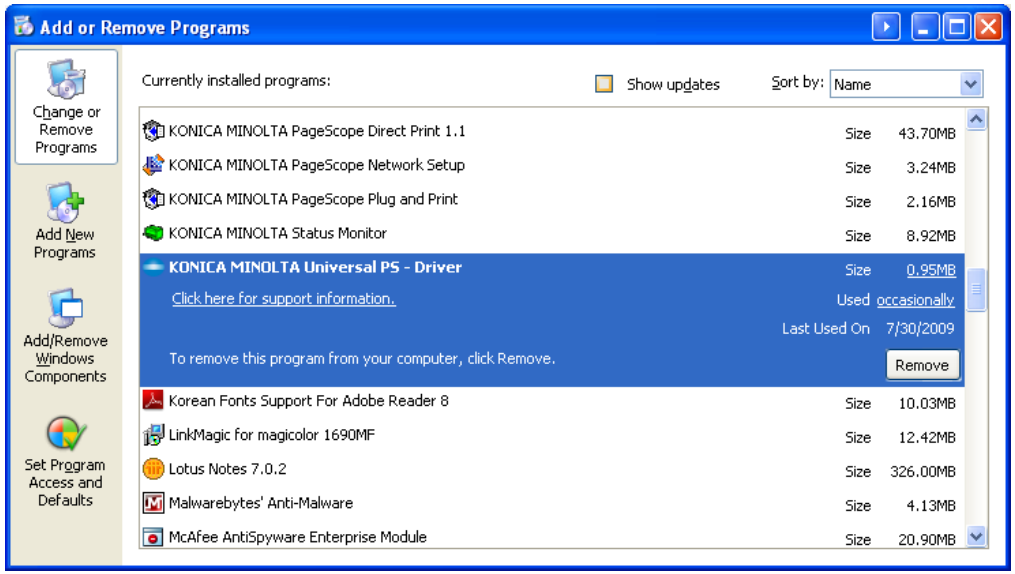
Individual Child Drivers (supported models)	Common Child Drivers (supported models)		
	bizhub series	magicolor & pagepro series (Letter/Legal)	PS / PCL-XL (Up to 11x17)
bizhub 350/250/200 bizhub 362/282/222 bizhub 500/420/360 bizhub 501/421/361 bizhub 750/600 bizhub 751/601 bizhub C250/C250P bizhub C252/C252P bizhub C352/C352P/C300 bizhub C450/C450P/C351 bizhub C650/C550/C451 (Vista supported version) bizhub C353/C253/C203 bizhub C652/C552 (1st version)	bizhub 350/250/200 (early FW) bizhub C650/C550/C451 (before Vista) bizhub C353P magicolor 8650DN bizhub C200	magicolor 4650EN/DN magicolor 5550/5570 magicolor 5650/5670 magicolor 4695MF pagepro 4650/5650 bizhub C20P bizhub C30P bizhub C31P bizhub 40P All magicolor PS/PCL models except 11x17	magicolor 1650EN magicolor 2550 magicolor 7440 magicolor 7450 magicolor 7450 II pagepro 9100 Third-party vendors PS/PCL devices (up to 11x17)

Key Features

Installation Program is quick and easy

- Installation program automatically installs the appropriate drivers based on 32-bit or 64-bit Windows operating system
- Automatically adds **KONICA MINOLTA Universal Printer Driver** into Printers and Faxes List
- No need to configure or add a port during installation
- Ability to uninstall driver through Add or Remove Programs


Setup - KONICA MINOLTA Universal PS - Driver
KONICA MINOLTA
Welcome to the KONICA MINOLTA Universal PS - Driver Setup Wizard
This will install KONICA MINOLTA Universal PS - Driver 06/15/2009,1.0.1.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
KONICA MINOLTA PageScope Direct Print 1.1 Size 43.70MB
KONICA MINOLTA PageScope Network Setup Size 3.24MB
KONICA MINOLTA PageScope Plug and Print Size 2.16MB
KONICA MINOLTA Status Monitor Size 8.92MB
KONICA MINOLTA Universal PS - Driver Size 0.95MB
Click here for support information.
Used occasionally
Last Used On 7/30/2009
To remove this program from your computer, click Remove.
Remove
Korean Fonts Support For Adobe Reader 8 Size 10.03MB
LinkMagic for magicolor 1690MF Size 12.42MB
Lotus Notes 7.0.2 Size 326.00MB
Malwarebytes' Anti-Malware Size 4.13MB
McAfee AntiSpyware Enterprise Module Size 20.90MB

Key Features

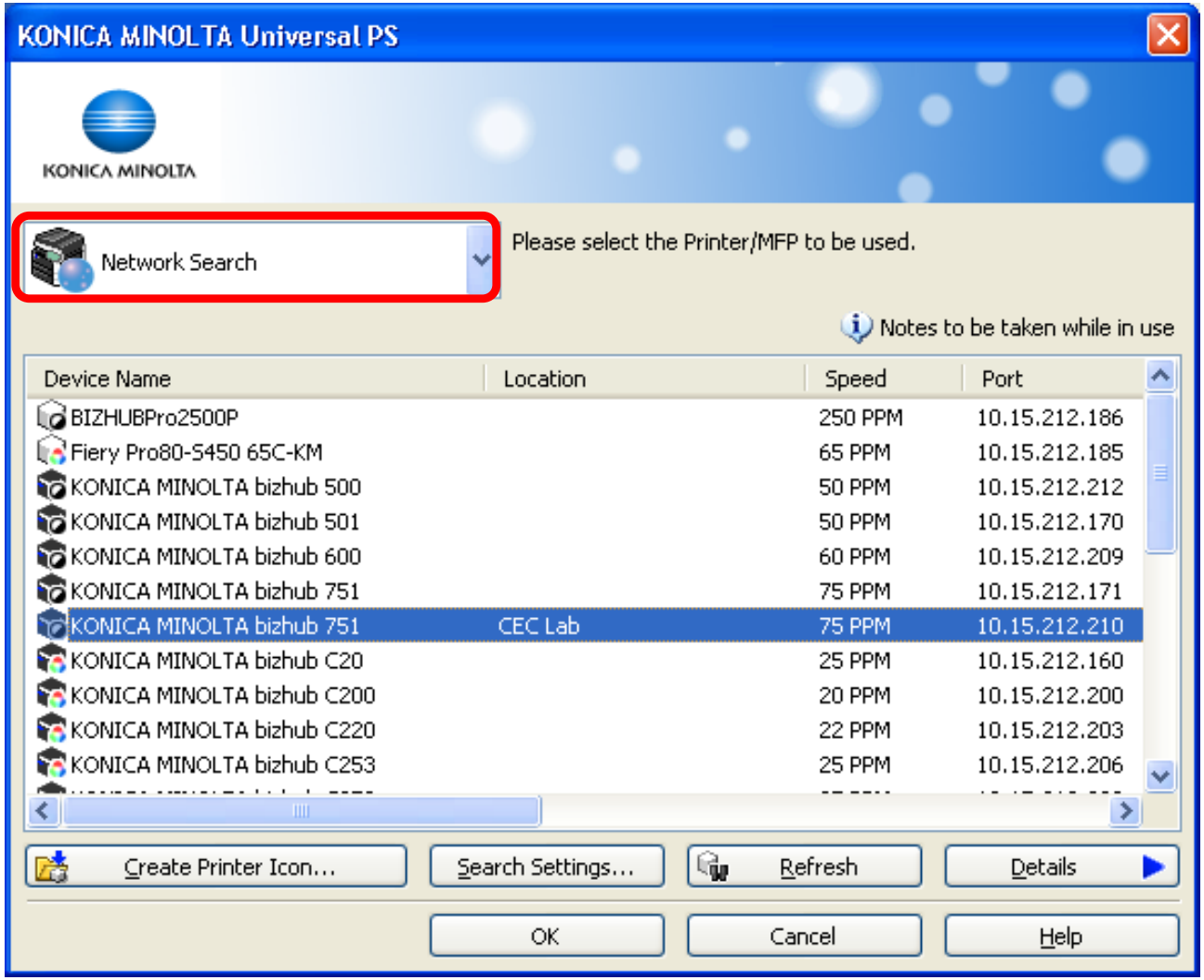
- **A single print driver for multiple printers**
  - Pre-installed printer drivers included with UPD:
    - **Individual child drivers** for specific Konica Minolta models that have the same functionality as the stand alone driver version
    - **bizhub series common child driver** with Emperon (PCL/PS)
    - **magicolor/pagepro series common child driver** with Emperon (PCL/PS)
  - Also includes a **common child driver** for third-party brands (PCL/PS):
    - PCL6/ PCL-XL (2.1 or later) compatible printers
    - PostScript (level 3) compatible printers

Emperon Driven!

bizhub
magicolor
pagepro

Key Features

- **Automatically detects network printer and MFP devices**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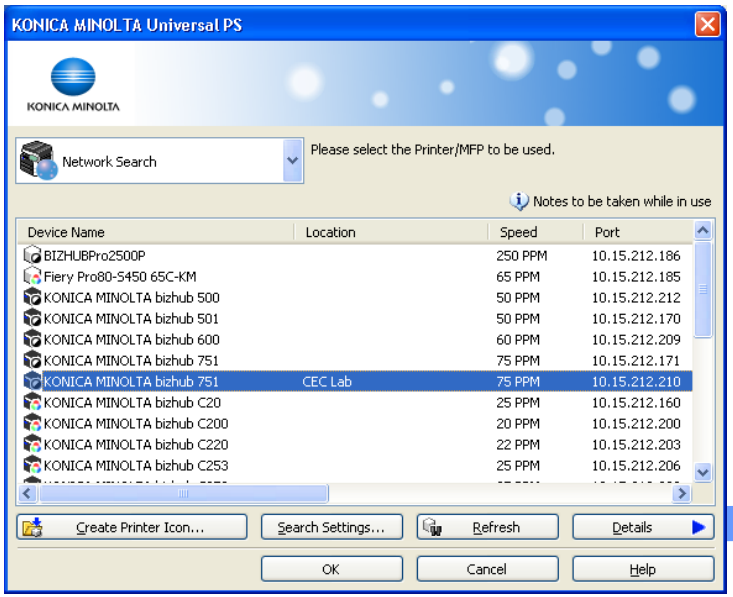
KONICA MINOLTA bizhub C253 25 PPM 10.15.212.206
Create Printer Icon...
Search Settings...
Refresh
Details
OK
Cancel
Help

Key Features

- **Search Filter of listed printer and MFP devices**
  - Search by feature set
    - 2 side output capability
    - 11” x 17” capability
    - MFP or Printer
    - Color capability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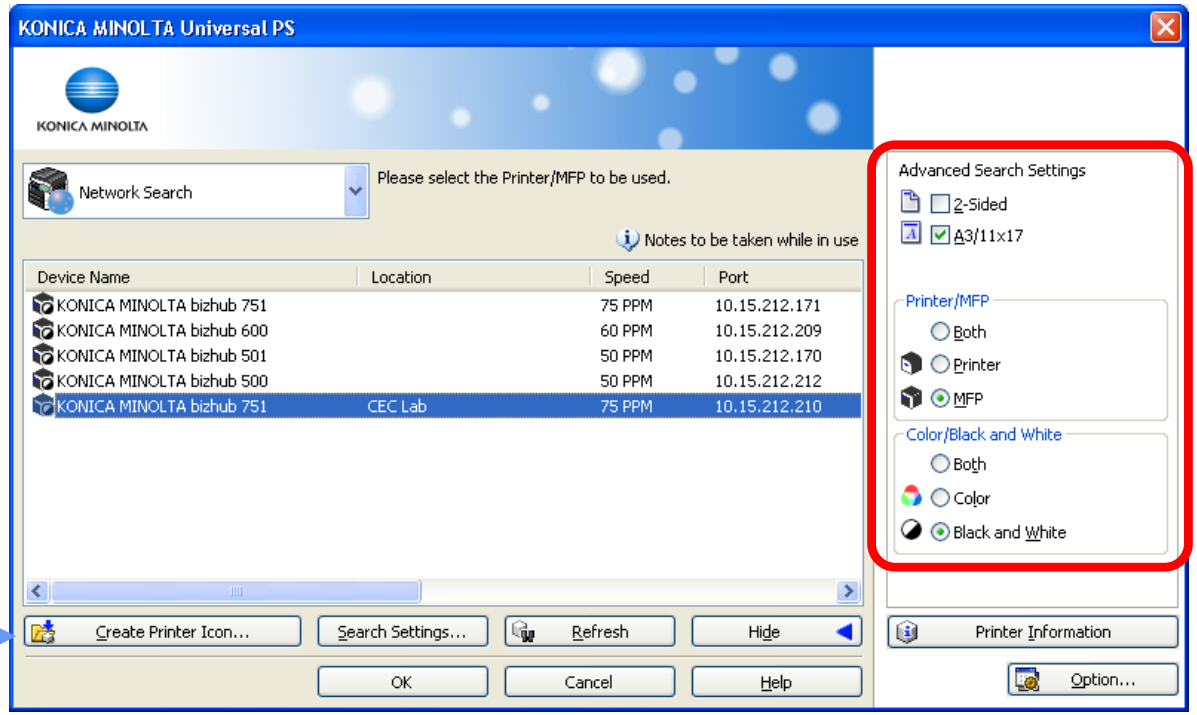

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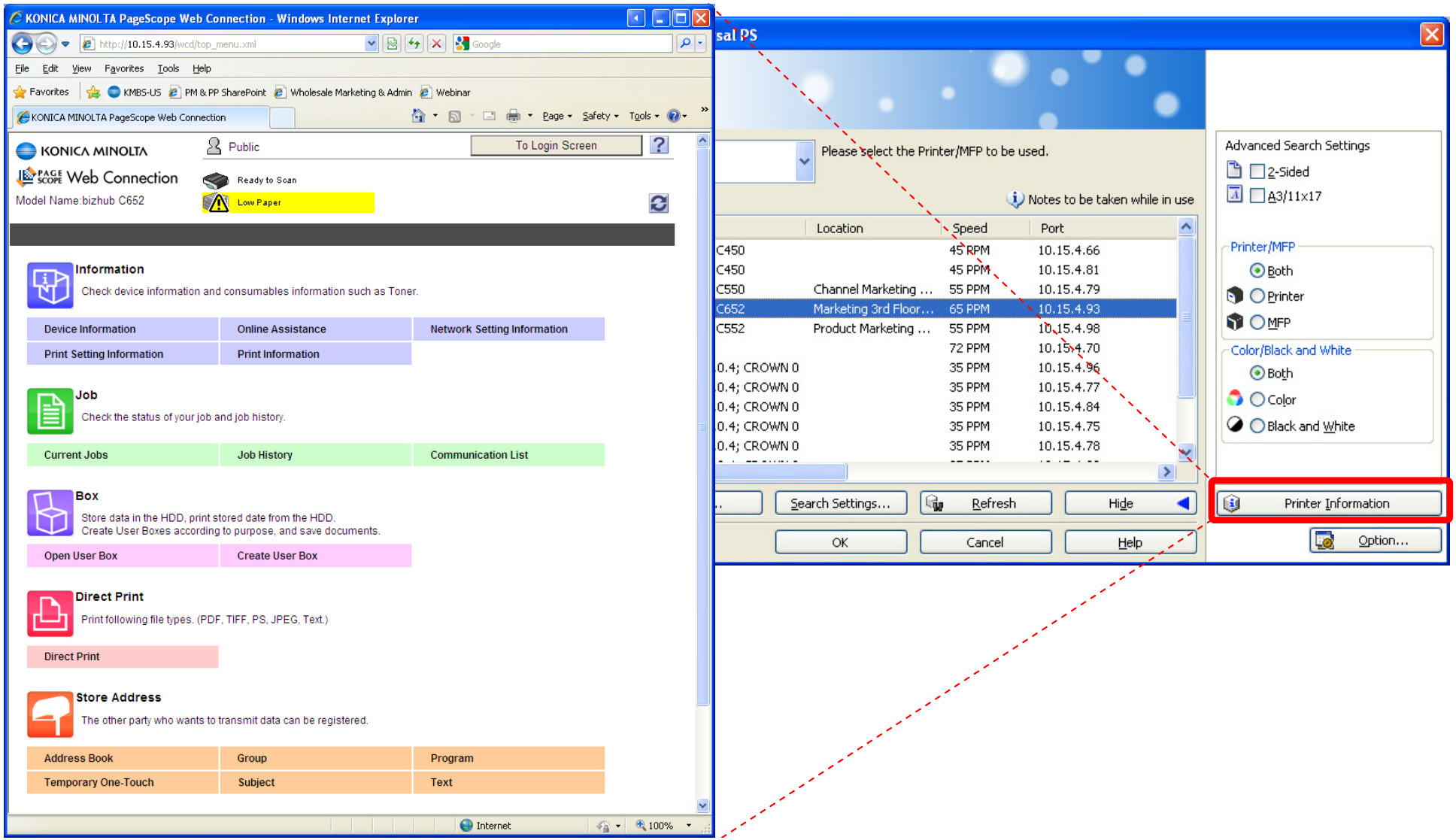
Key Features

Connect to detailed Printer Information

- Click on Printer Information to open web page of the selected device



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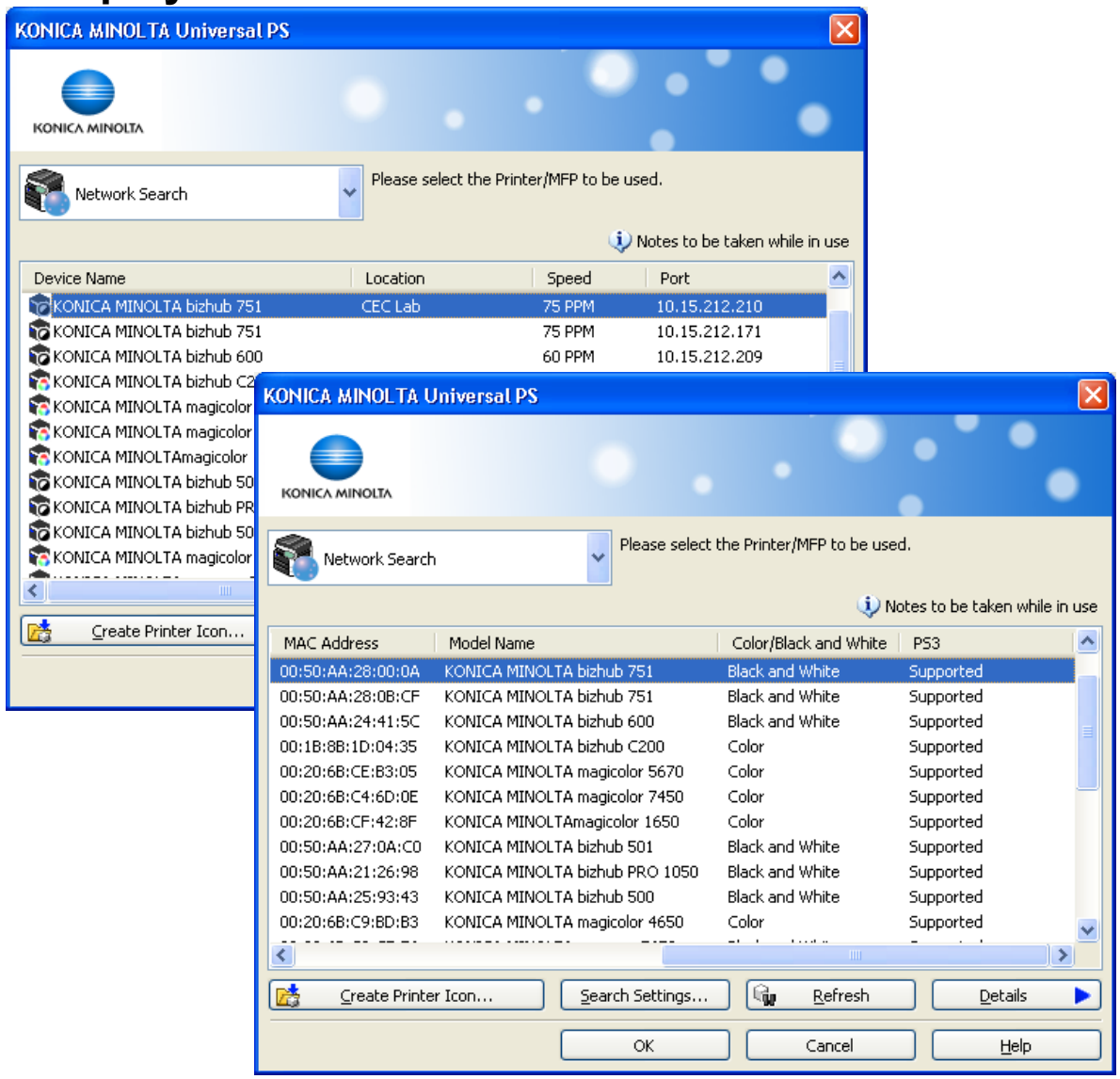
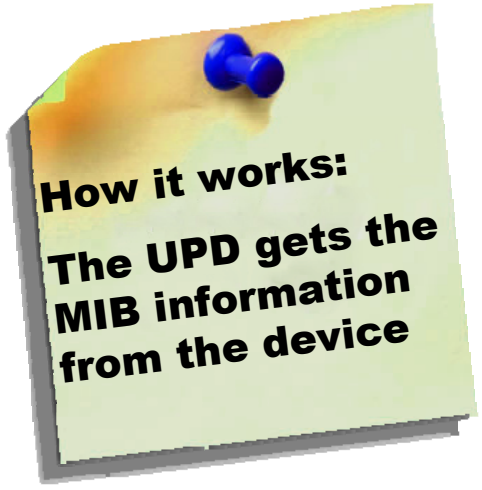
Key Features

- **Displays Printer/MFP's detail information in search result**

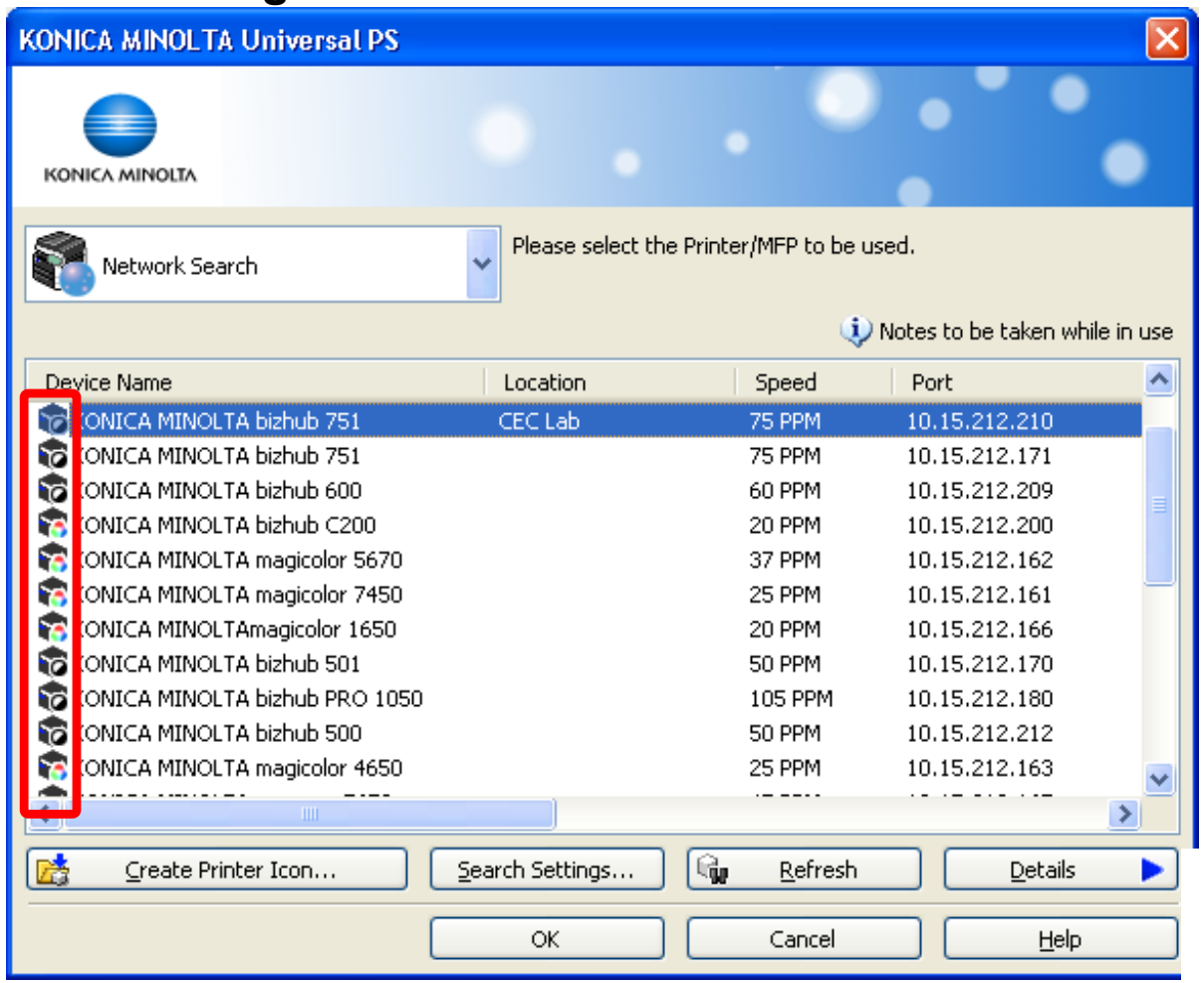


Device Name
Location
Speed
Port (IP Address)
MAC Address
Model Name
Color / Black and White
Supported PDL



Key Features

- **Icons at a glance**

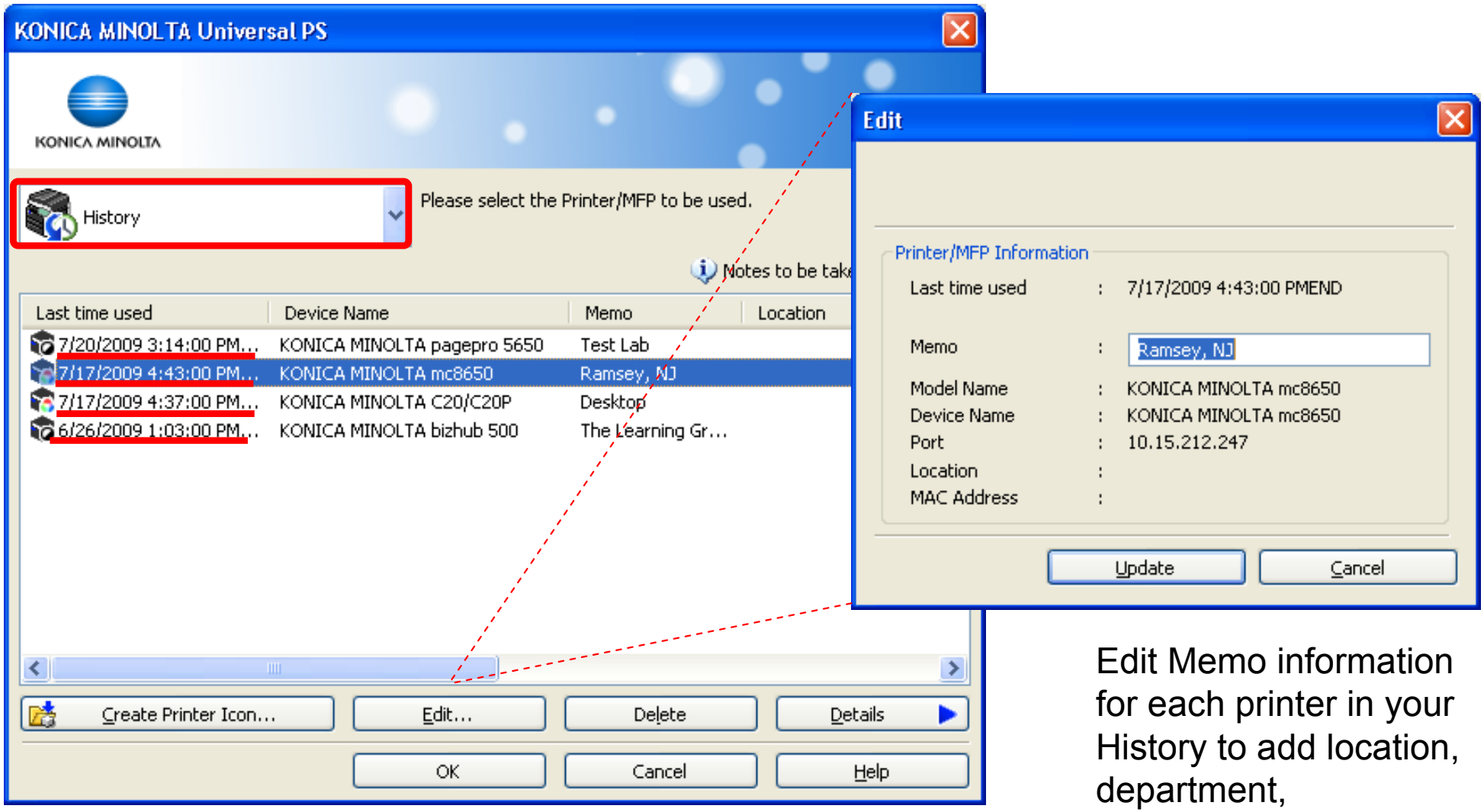


Meanings of Icons		PDL Support - Yes -	PDL Support - No -
Konica Minolta products	Color		
	B&W		
Third-Party Products	Color		
	B&W		
	Unknown		

Icon displays if device name listed is supported by Universal Printer Driver

Key Features

- **Display History of recently connected to Printer/MFP on top screen**

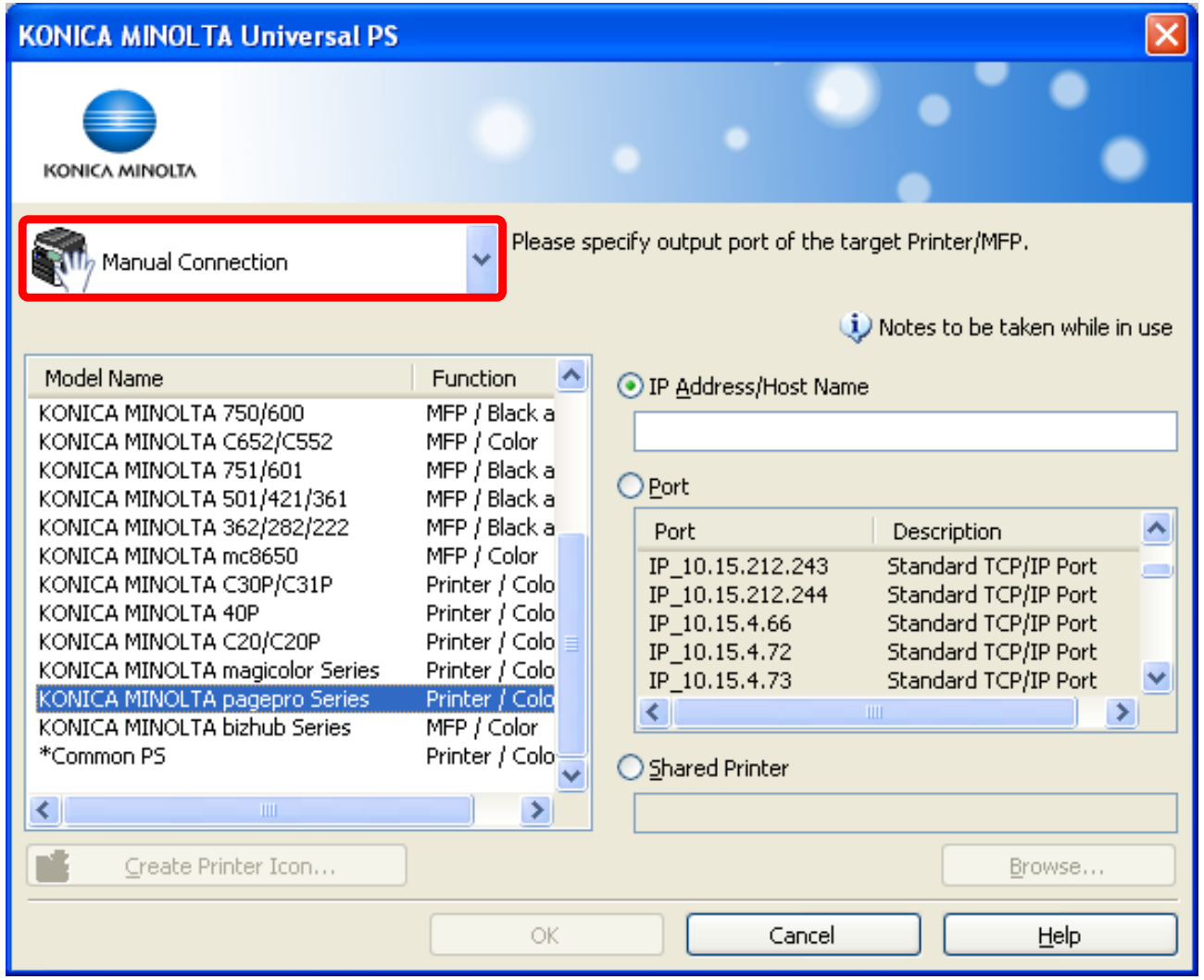


Edit Memo information for each printer in your History to add location, department, description, etc.

Key Features

- **Manual Connection – allows you to select the individual or common child driver and connect via IP address, existing port already created, or shared printer.**

1. Select child driver from list on the left



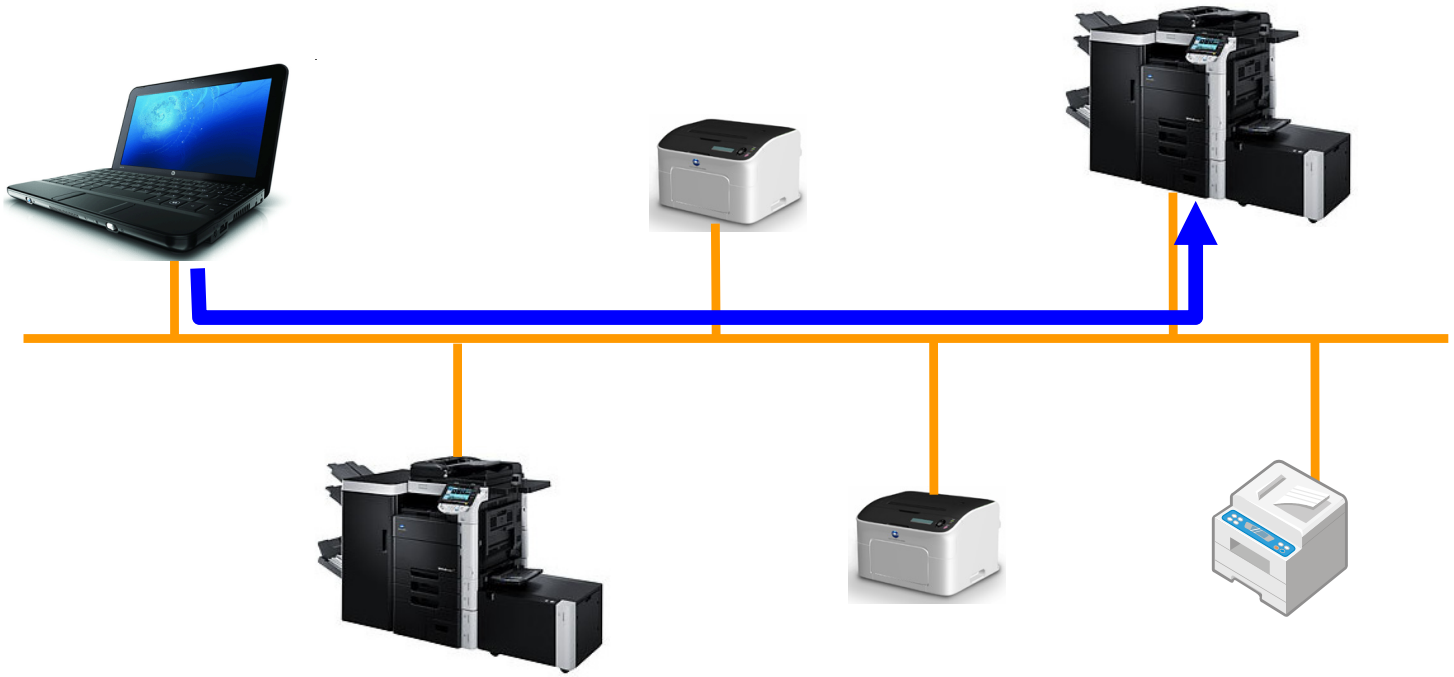
2. Specify the output port of the target Printer/MFP on the right

Administrator Benefit:

Quickly assign child drivers to devices on network

Key Features

- **Automatically connects last used Printer/MFP**
  - This eliminates the need to search for a printer/MFP every time you print



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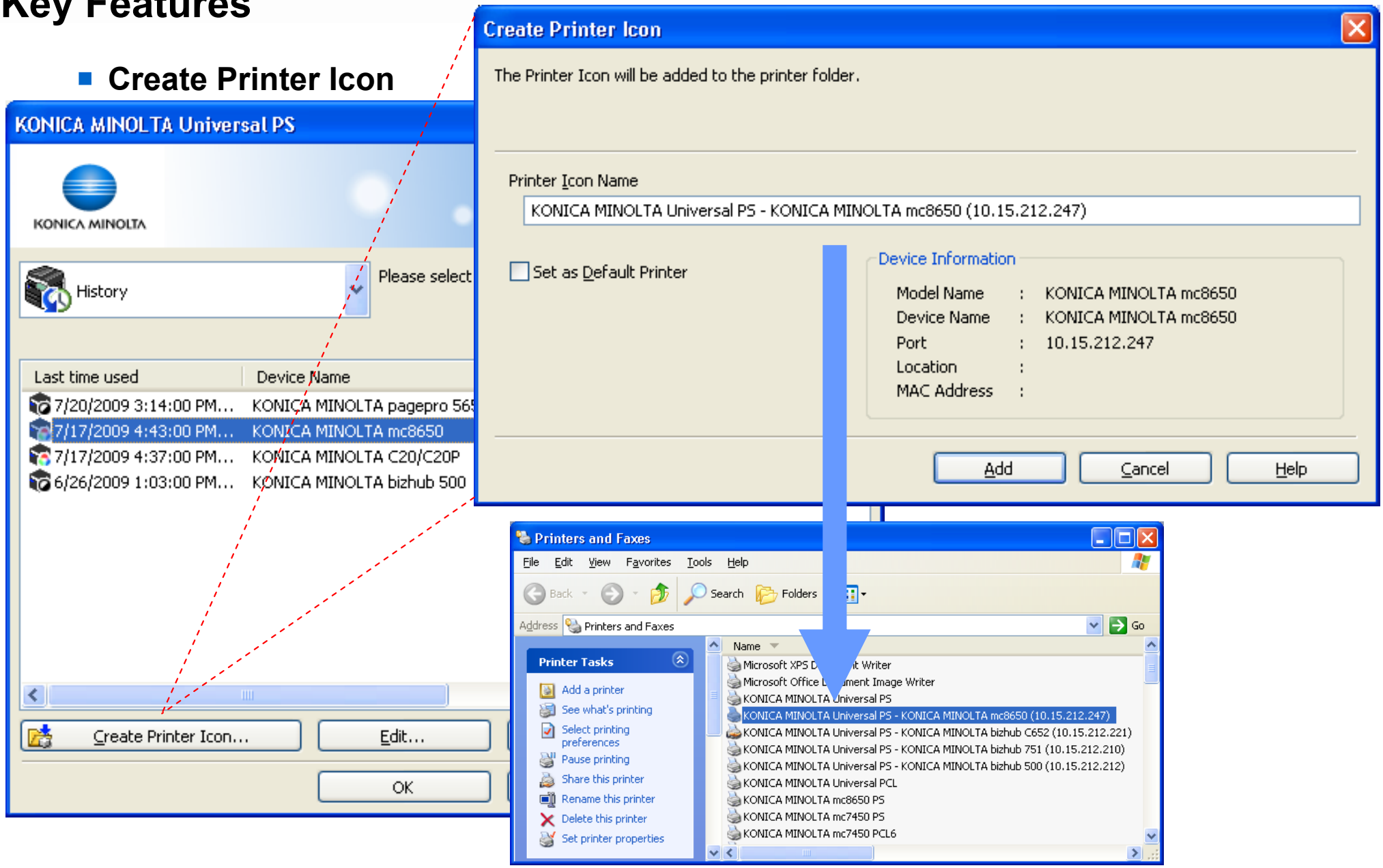
Key Features

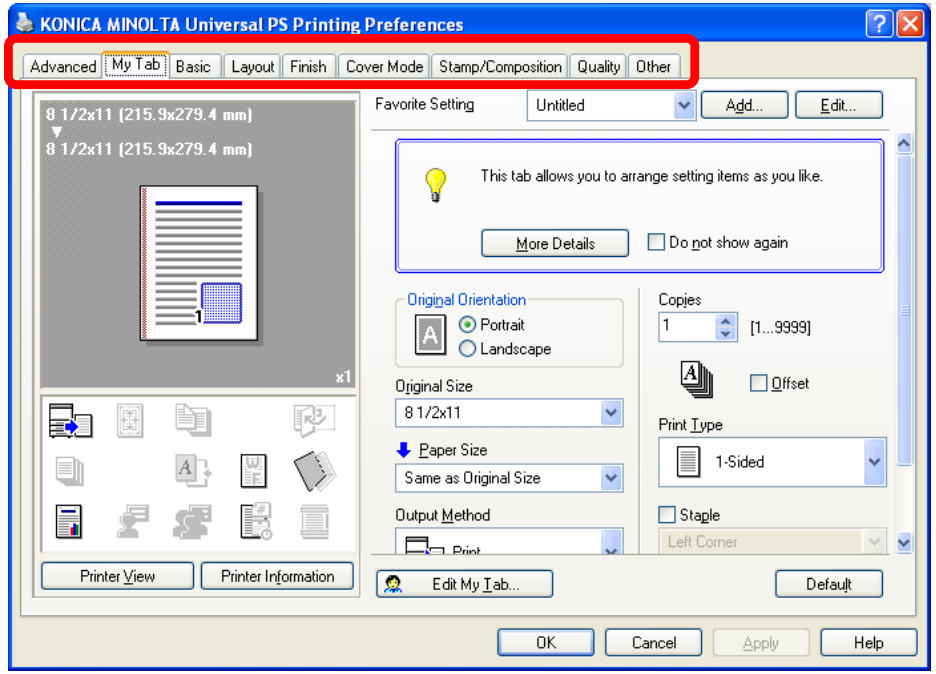
- **Create Printer Icon**



Key Features

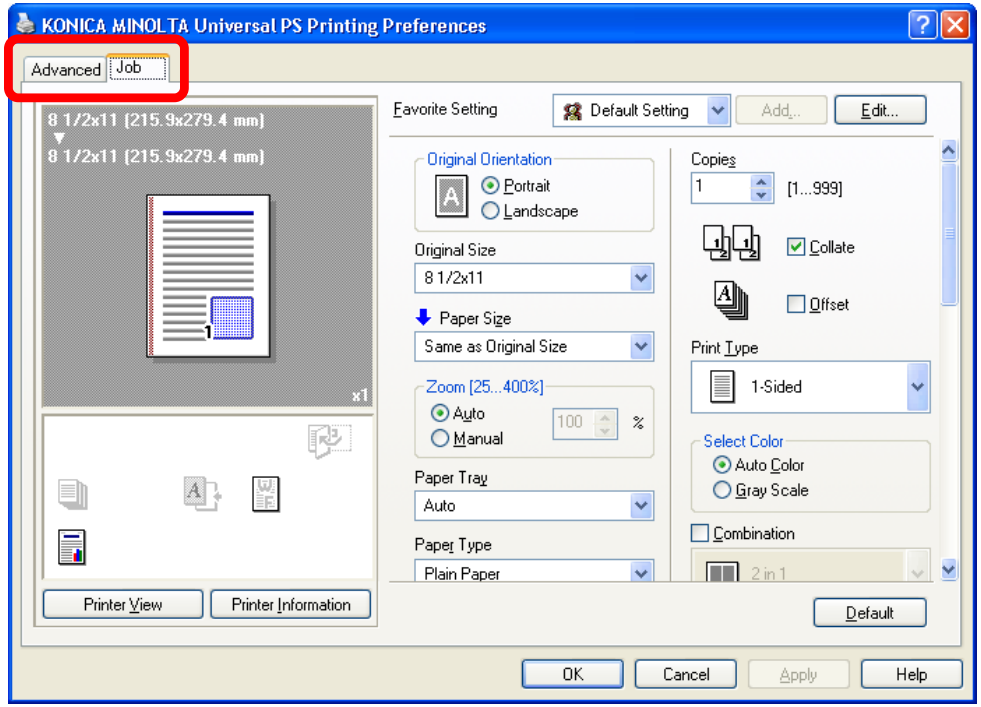
Common User Interface for all printers

- Individual child driver



Full function is supported

- bizhub common child driver

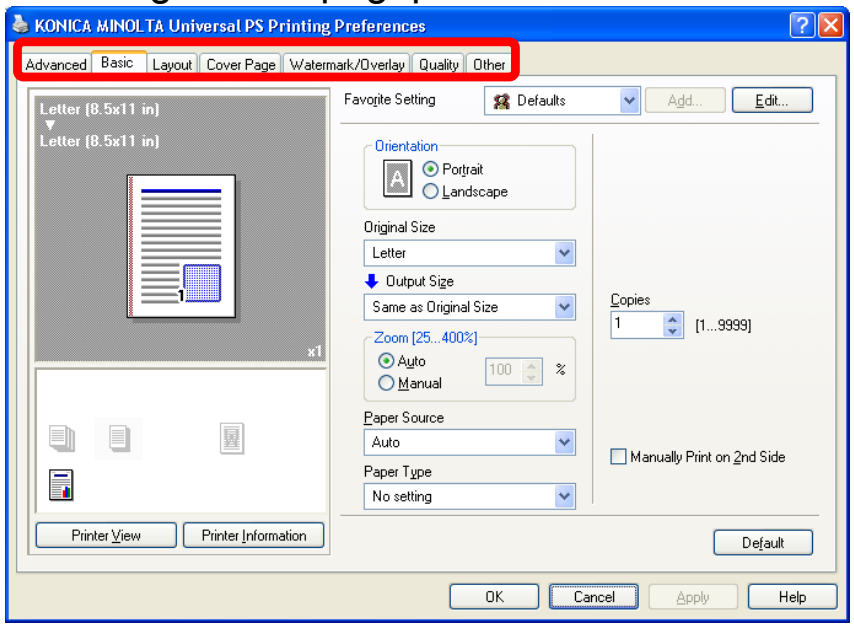


Limited function is supported

Key Features

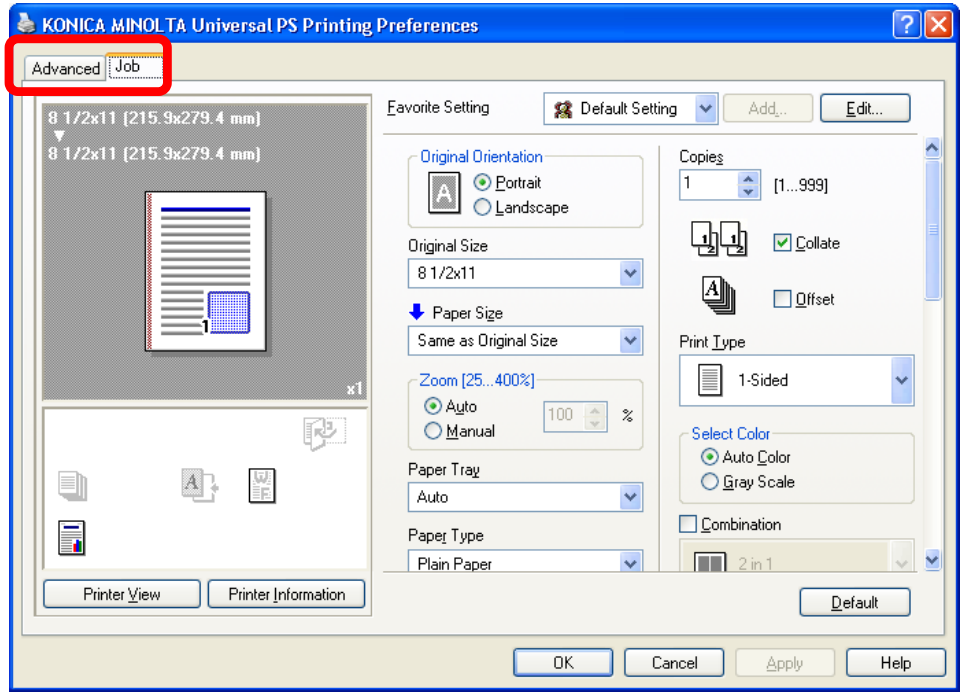
Common User Interface for all printers

- magicolor & pagepro series common child driver



Limited function is supported

- PS / PCL-XL common child driver



Only basic functions is supported

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Individual Child Drivers (supported models)	Common Child Drivers (supported models)		
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Future Products

Future products models are temporarily connected to the common child driver then later the individual child driver will be provided for full functionality within the UPD

Note:

Older and New Konica Minolta compatible devices are supported as well through the common child drivers

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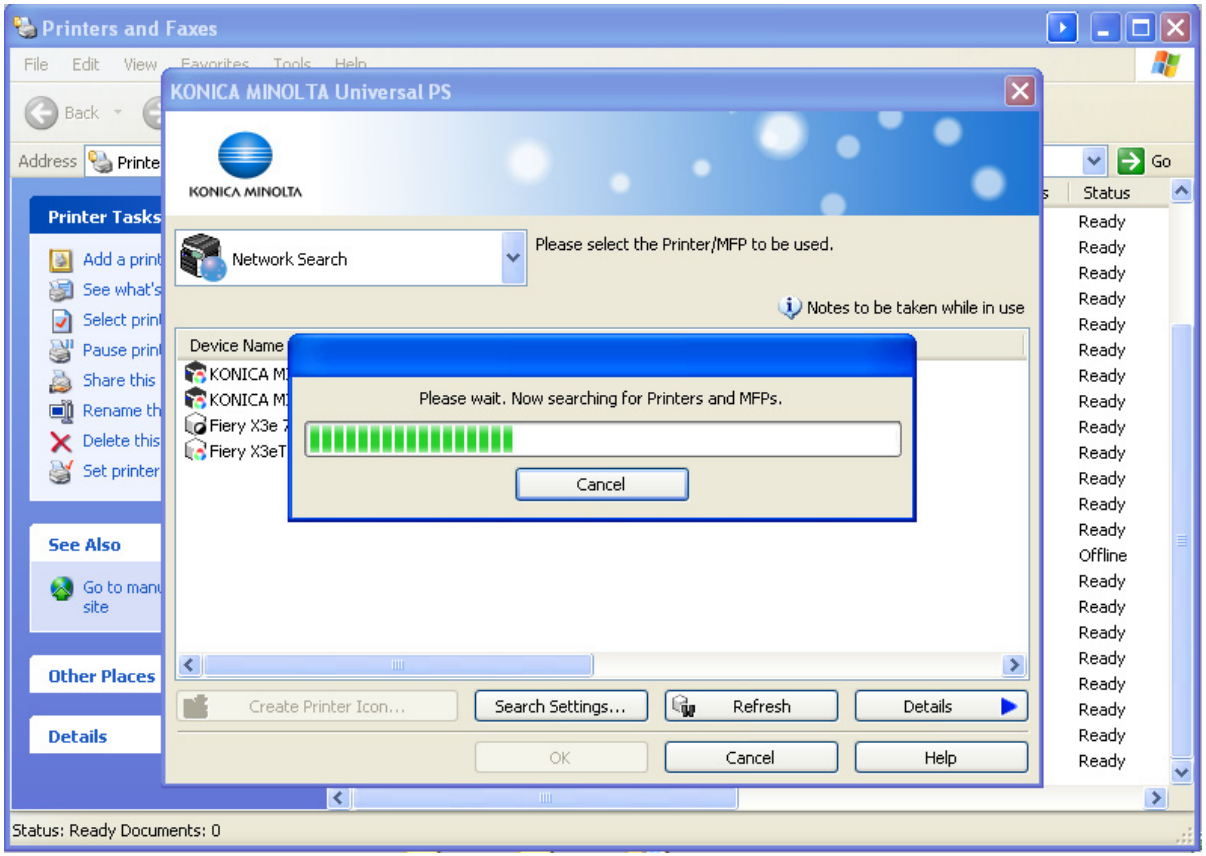
Functions by Child Driver		Individual	bizhub series	magicolor & pagepro series	PS / PCL-XL
Paper size		Y	Y	Y (Up to Letter / Legal)	Y (Up to 11 x 17)
Paper Tray	Auto / Manual / Tray1, ...	Y	Y	Y	Y
Paper Type		Y	Y	Y	N
Output Method	Secure / Box / Proof	Y	N	N	N
Authentication/Account Track		Y	N	N	N
Collate		Y	Y	N	N
Offset		Y	Y	N	N
Print Type, Combination	2-sided / Booklet / N-up	Y	Y	Y	Y
Binding Position		Y	Y	Y	N
Image Shift		Y	N	Y	N
Staple		Y	Y	N	N
Fold		Y	N	-	N
Output Tray		Y	N	N	N
Front & Back Cover		Y	Y	Y	N
Watermark		Y	Y	Y	N
Overlay		Y	Y	Y	N
Select Color	Color / Gray scale	Y	Y	Y	Y
Quality Adjustment		Y	N	N	N
Acquire Device information		Y	N	N	N

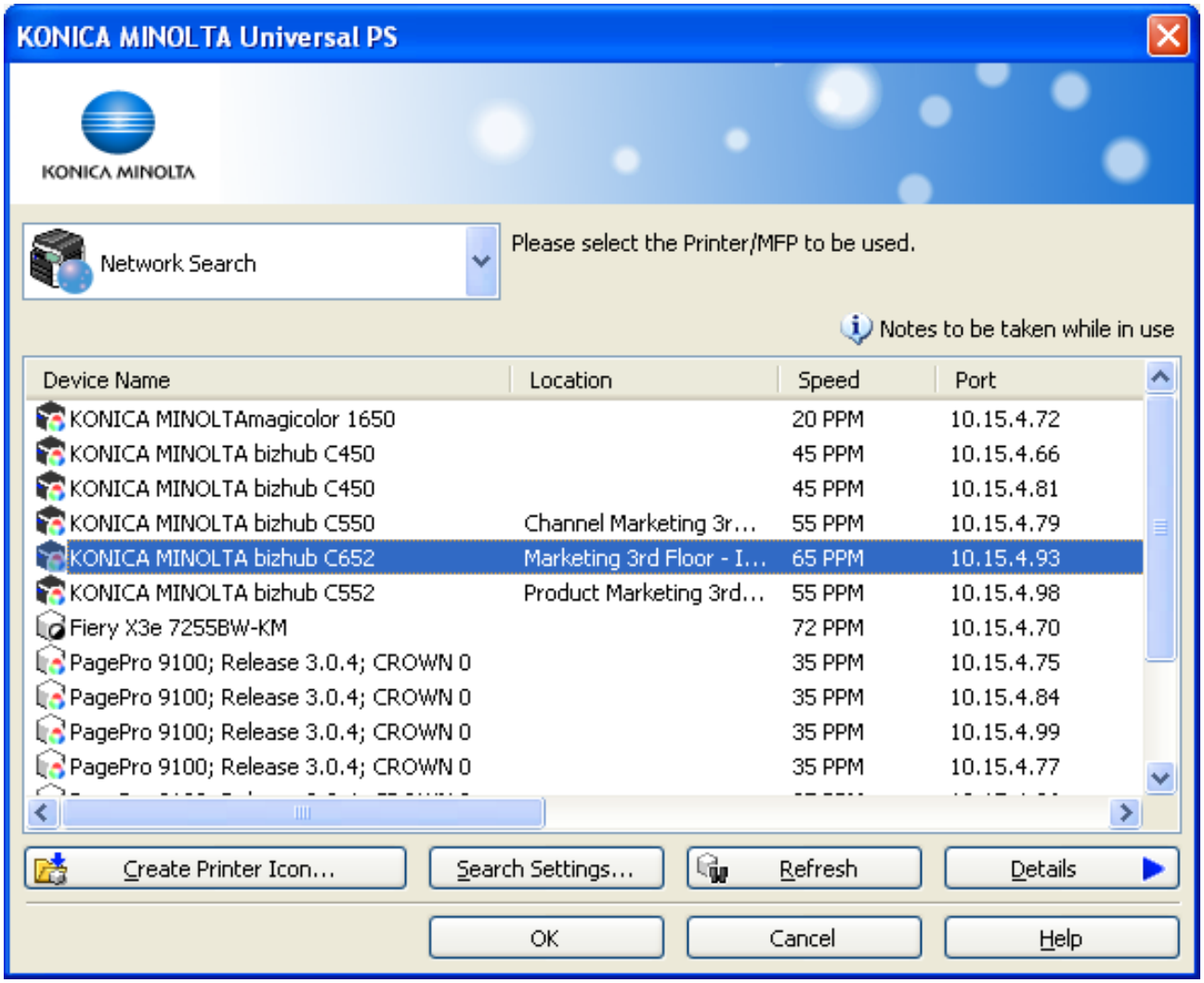
How it works: Client Installation

- **After installing the UPD, the first time you click on the driver properties in the Printers and Fax list it will perform the network search to build a list of printers and MFPs devices to connect to.**



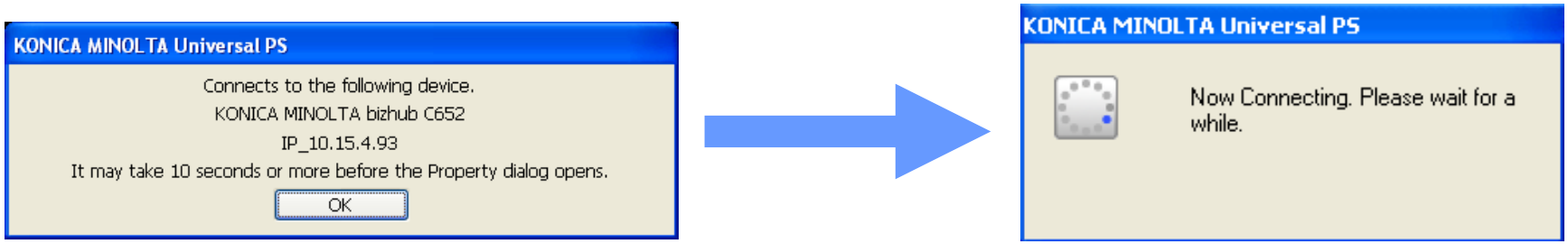
How it works: Client Installation

- **Select a device to connect to from the list and click OK.**



How it works: Client Installation

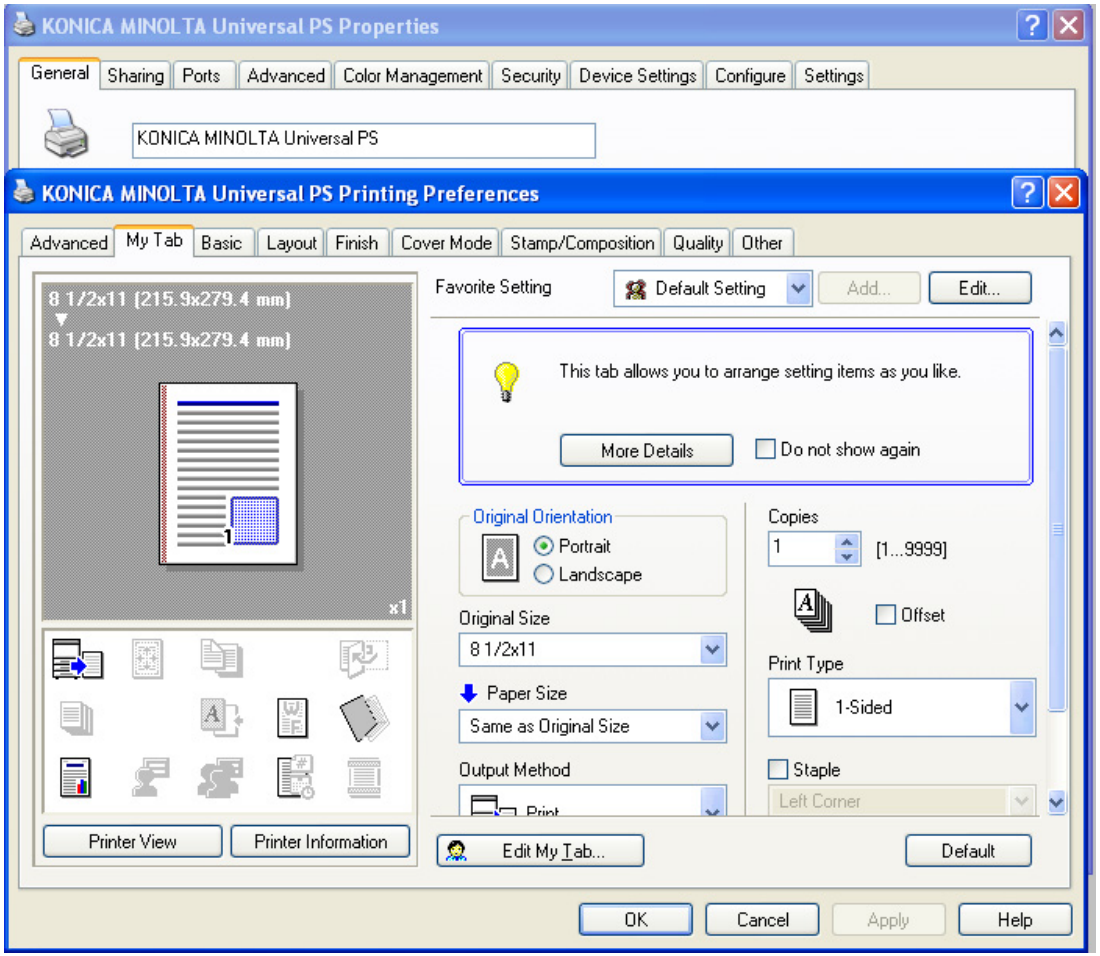
- The UPD will then prompt you it is going to connect to the device, click OK. It may take 10 seconds or more before the Property Dialog opens.


KONICA MINOLTA Universal PS
Connects to the following device.
KONICA MINOLTA bizhub C652
IP_10.15.4.93
It may take 10 seconds or more before the Property dialog opens.
OK
KONICA MINOLTA Universal PS
Now Connecting. Please wait for a while.

- Why does it take 10 seconds or more to connect? The UPD is determining what the device is on the network and then loading the appropriate child driver for the device.
- Remember, the UPD is many drivers in one. So it needs to determine which child driver will be best for the Konica Minolta device or third-party device.
- After you have connected to the that specific device and the child driver has been loaded, you will not have to wait again for the device properties during that session.

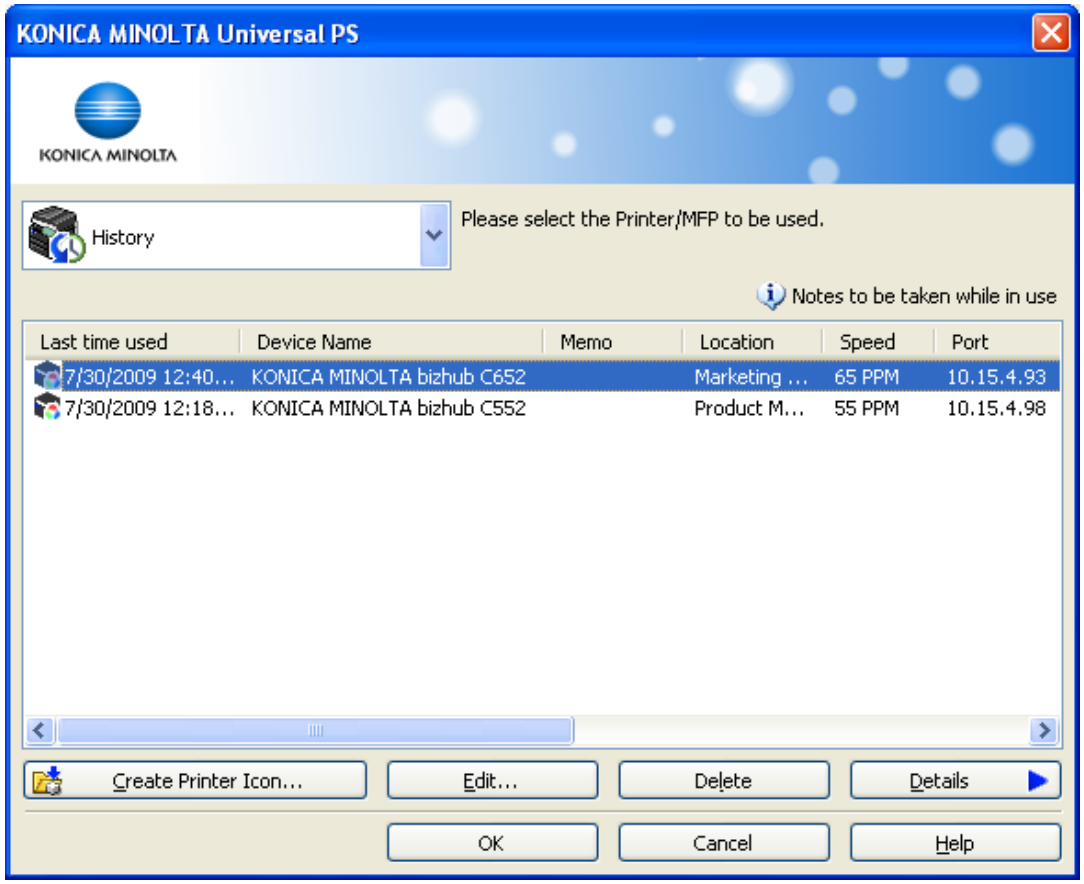
How it works: Client Installation

- **From the Properties you can select the Printing Preferences of the driver and set the default setting for the driver. Click OK and your driver is now set.**



How it works: Client Installation

- The UPD will always print to the last device connected to.
- Now, when you bring up the properties of the UPD it will show a History of the devices you have connected to.



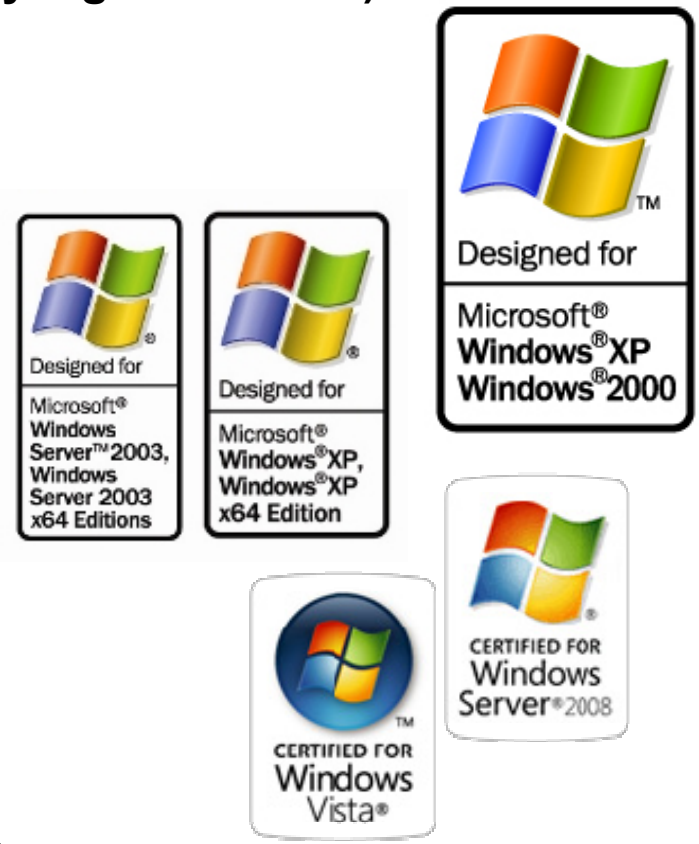
Performance

- Timing test were completed to compare the UPD vs. the Konica Minolta out of the box drivers. There is virtually no speed differences between the two.
- Timing tests were printed on a bizhub C650 using Adobe Acrobat and Microsoft Word

	Standard PCL bizhub C650 Driver	Universal PCL Driver	Standard PS bizhub C650 Driver	Universal PS Driver
68 MB PDF File	13 seconds	13 seconds	13 seconds	12 seconds
4.1 MB PDF File	12 seconds	13 seconds	13 seconds	15 seconds
987kb .doc File	11 seconds	13 seconds	14 seconds	12 seconds

Operating Systems Supported

- **This UPD is WHQL Certified (also known as digitally signed drivers) with the following O/S:**
  - Windows 2000 Professional (SP4 or later)
  - Windows XP Professional (SP1 or later)
  - Windows XP Professional x64 Edition
  - Windows Server 2003
  - Windows Server 2003 x64 Edition
  - Windows Server 2003 R2, Standard x64 Edition
  - Windows Server 2003 R2, Enterprise x64 Edition
  - Windows Vista
  - Windows Server 2008 Standard
  - Windows Server 2008 Enterprise
- **This guarantees driver compatibility from Microsoft**



Benefits

- **IT Administrators**
  - Reduce administration cost
    - Do not need to install drivers for each products
    - Do not need testing all functions for each products, driver core is same
    - Basic functions can be used without installing specific out of the box driver
- **Users**
  - A single printer driver is sufficient
    - Do not need to learn several UI for operation
    - Easy to find/configure new printers

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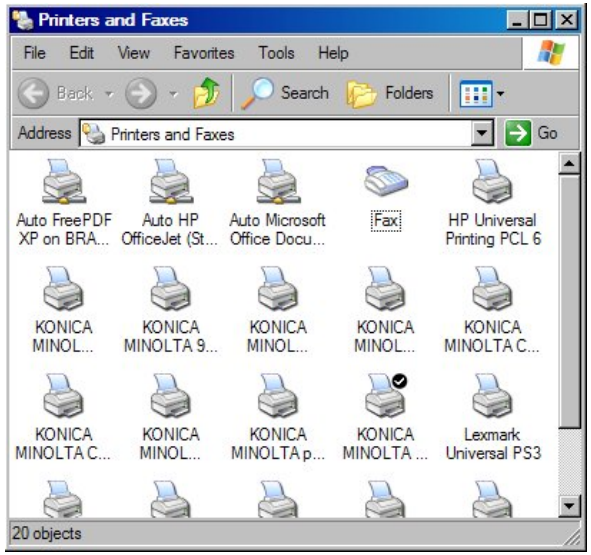
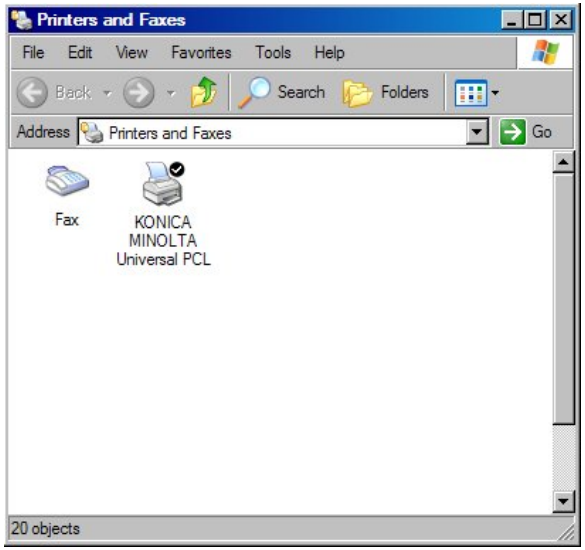
From Many Print Drivers to One

- **Simply your Printers and Faxes – eliminate unnecessary print drivers and just use the Konica Minolta Universal Printer Driver!**





Many Printer Icons

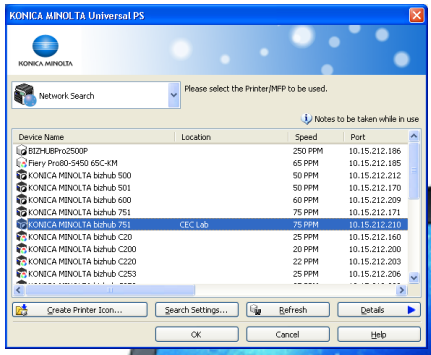
One Printer Icon

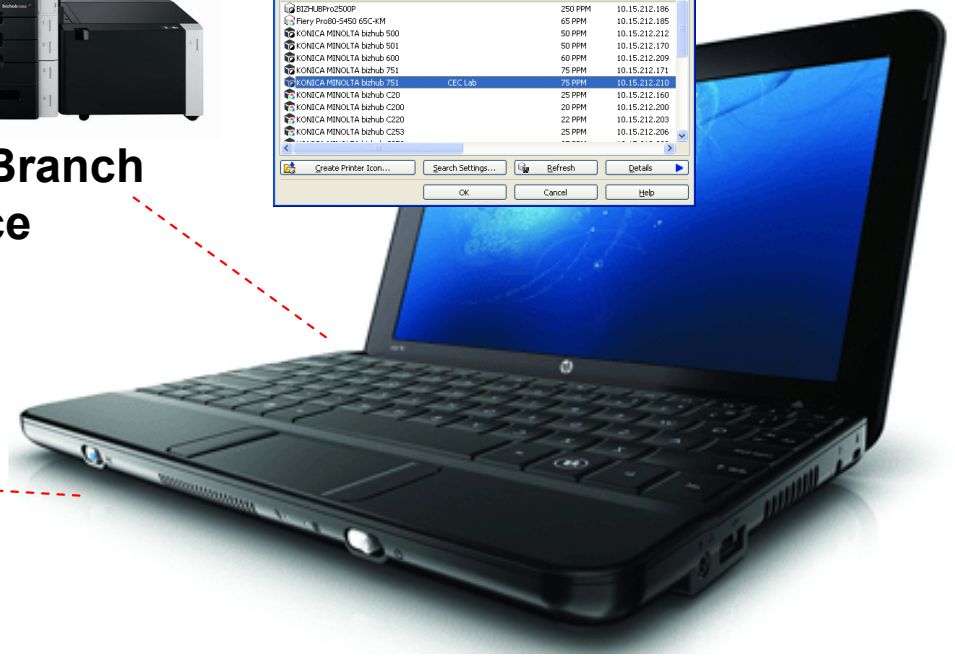
Customer Applications

- **Great for mobile users that frequently travel from office to office**
  - Sales & Service Representatives / Learning Instructors / Regional Managers
  - No more wasting time searching for IP addresses, contacting IT when visiting an office or downloading printer drivers
  - Save your commonly printed to devices in your Printers and Fax list with Add Printer Icon feature, instead of searching the network every time you move locations

Detroit Branch Office

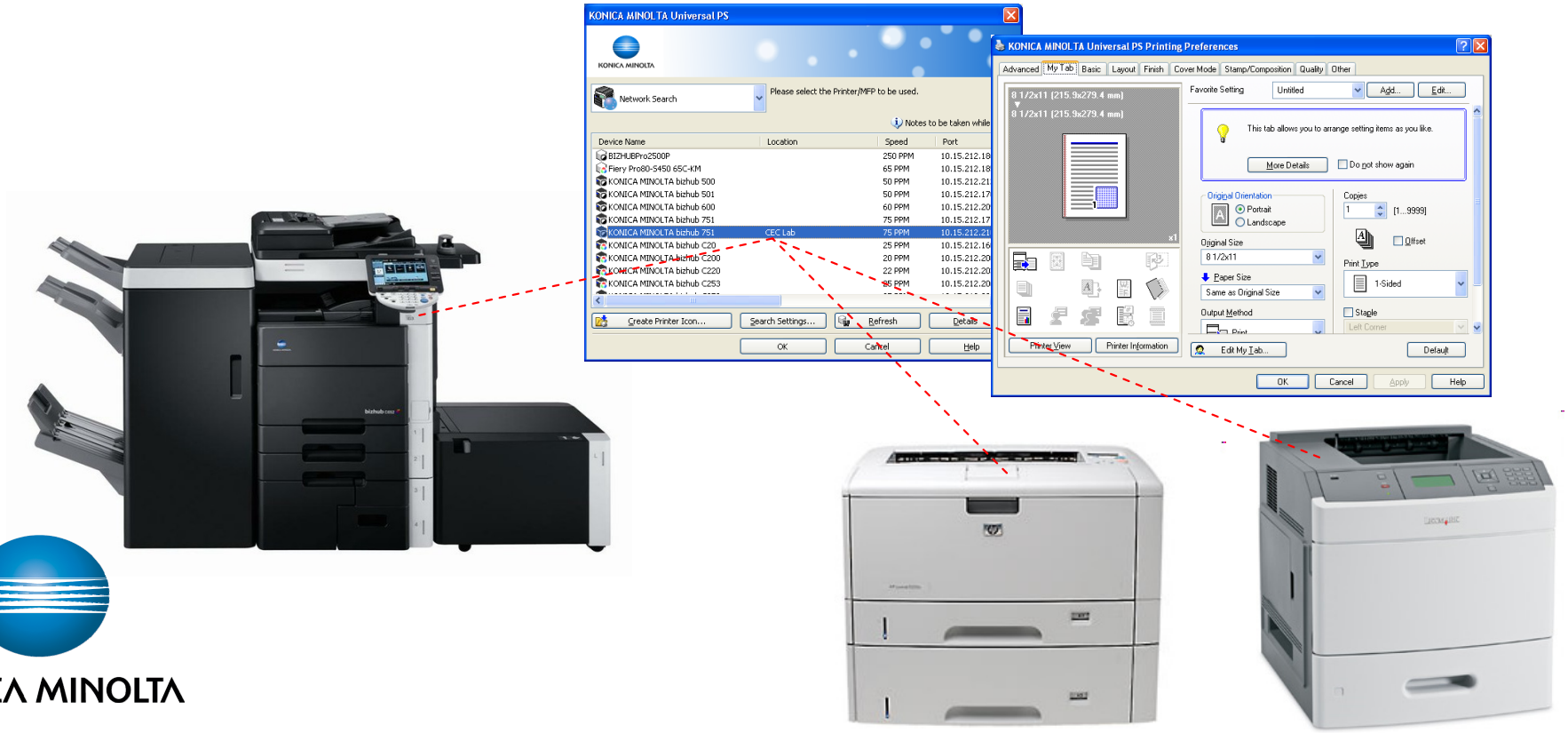
Chicago Branch Office





Customer Applications

- **Major Account & Key Account Customers with Konica Minolta MFPs and third-party printers**
  - Using the Universal Printer Driver creates a simplified driver to support all the necessary MFP and printer functions in the office
  - Less driver management for IT to reduce time, support and administration costs



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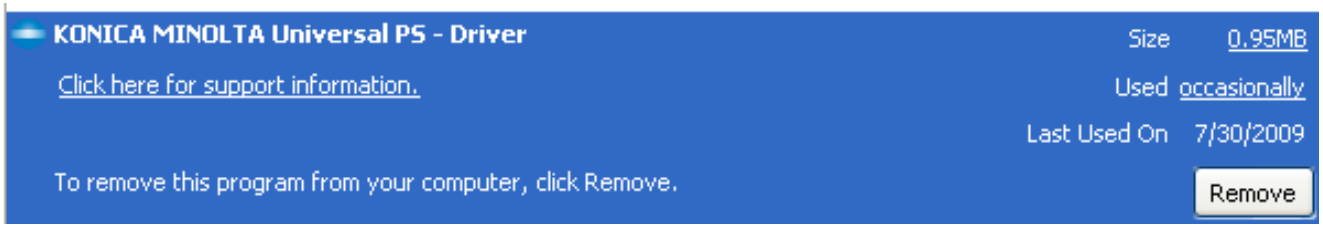
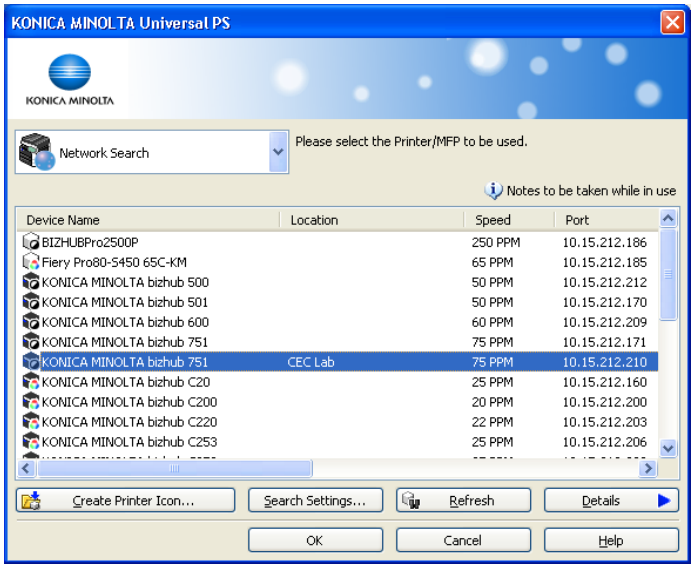
Client Installation Scenario

- **UPD is installed by user, assuming local Admin rights**


KONICA MINOLTA Universal PS - Driver
Size 0.95MB
Click here for support information.
Used occasionally
Last Used On 7/30/2009
To remove this program from your computer, click Remove.
Remove

User Benefit: Can select which device they find on the network

- **Client can connect and print to any compatible printers found on the network, create manual printers connected to devices found with the UPD**


KONICA MINOLTA Universal PS
KONICA MINOLTA
Network Search
Please select the Printer/MFP to be used.
Notes to be taken while in use
Device Name Location Speed Port
BIZHUBPro2500P 250 PPM 10.15.212.186
Fiery Pro80-S450 65C-KM 65 PPM 10.15.212.185
KONICA MINOLTA bizhub 500 50 PPM 10.15.212.212
KONICA MINOLTA bizhub 501 50 PPM 10.15.212.170
KONICA MINOLTA bizhub 600 60 PPM 10.15.212.209
KONICA MINOLTA bizhub 751 75 PPM 10.15.212.171
KONICA MINOLTA bizhub 751 CEC Lab 75 PPM 10.15.212.210
KONICA MINOLTA bizhub C20 25 PPM 10.15.212.160
KONICA MINOLTA bizhub C200 20 PPM 10.15.212.200
KONICA MINOLTA bizhub C220 22 PPM 10.15.212.203
KONICA MINOLTA bizhub C253 25 PPM 10.15.212.206
Create Printer Icon...
Search Settings...
Refresh
Details
OK
Cancel
Help

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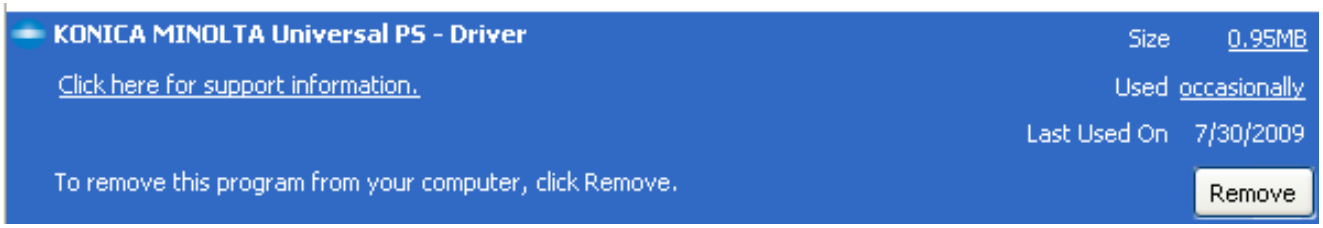
Server Installation Scenario

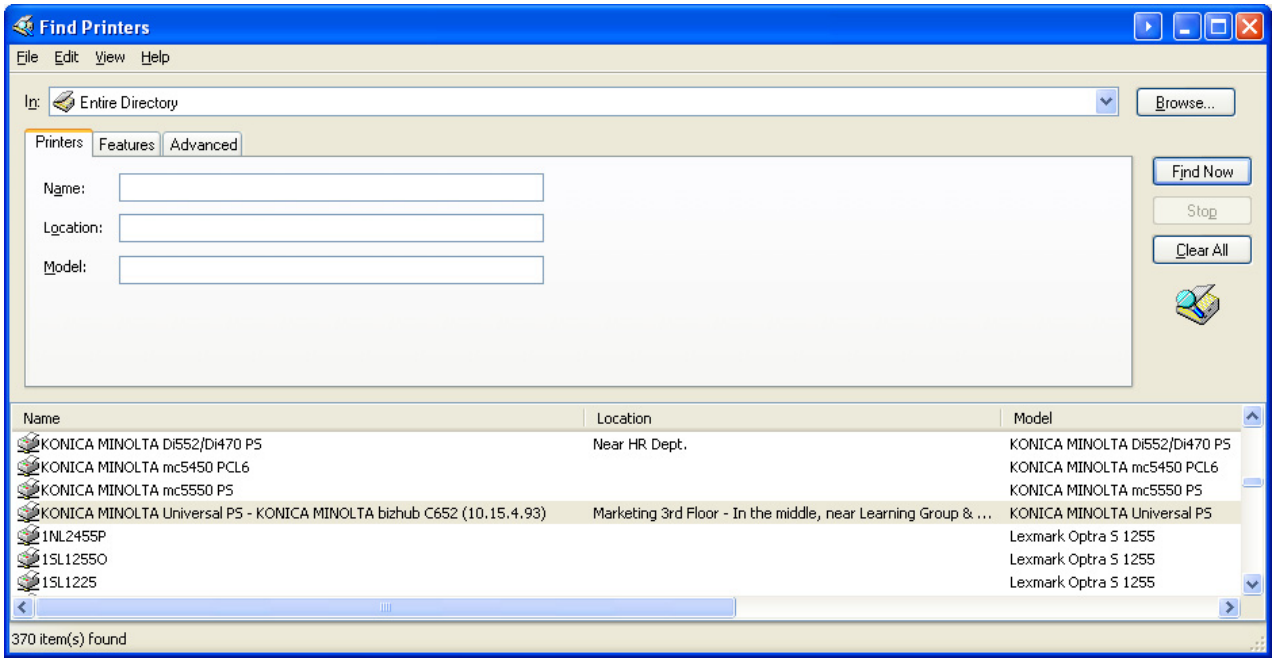
- **UPD is installed by Admin, but UPD itself cannot be shared to clients**


KONICA MINOLTA Universal PS - Driver
Size 0.95MB
Click here for support information.
Used occasionally
Last Used On 7/30/2009
To remove this program from your computer, click Remove.
Remove

Administrator Benefit:

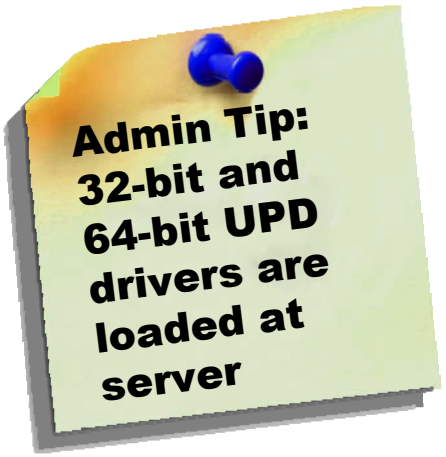
Control what users print to

- **Instead Individual Printers can created by UPD by "Create a Printer Icon" and then Shared to Users**



Server Installation Scenario

- UPD supports “Point & Print”, although the device selector on the client side will not be available. This is to protect from the clients trying to connect to different devices. This is the same type of design on HP’s UPD.
- 32-bit and 64-bit UPD driver files can be loaded on the server to support mixed client environments.



Windows
Server 2008

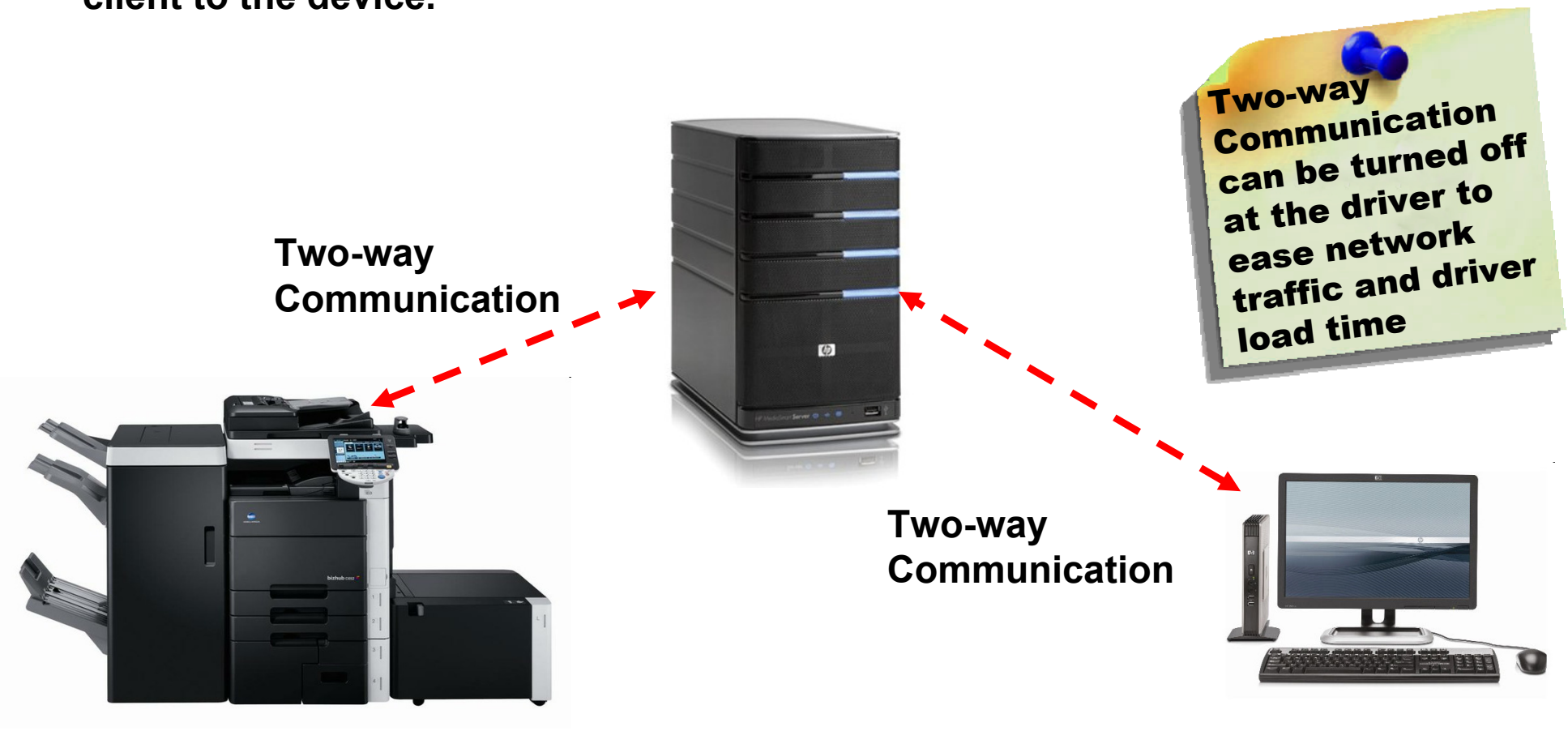
64-bit Server

Windows Vista
64-bit Client

Windows XP
32-bit Client

Server Installation Scenario

- Two-way driver communication (to get device options installed on device) is the same with UPD Individual Child Drivers, as with out of the box drivers. Communication to the device is done through the server, not directly from the client to the device.


Two-way Communication can be turned off at the driver to ease network traffic and driver load time
Two-way Communication
Two-way Communication

Advantages

- **Common Interface** - The UPD interface is the same as out of the box drivers, no need to learn a new driver interface.
  - Client or Server installation, have the same interface for both users
- **Network Search** - Search the network for all compatible devices allows the admin or user to select the device without entering in any extra data (like an IP address)
- **Manually Create** - Printers created manually use less network traffic compared to searching the network with the UPD.
- **Secure** - When the UPD is installed on a server and the driver is shared. The admin is the only one who can create the printers. Only the printers that are created with the driver are available for the clients. They are not able to connect to the UPD and browse and create their own printer.
- **Icons at a glance -** While searching the network it's easy to distinguish between the Color and B&W MFPs/Printers by an icon.
- **Individual Child Drivers -** Automatically acquire the device information and configure the options for the driver (out of the box drivers do the same)

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